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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/889,410	07/17/2001	J Kitahara	H-996	2813
7590 11/29/2004			EXAMINER	
John R Mattingly			SCHUBERT, KEVIN R	
Mattingly Stanger & Malur 1800 Diagonal Rd			ART UNIT	PAPER NUMBER
Suite 370			2137	
Alexandria, V	A 22314		DATE MAILED: 11/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

*	Application No.	Applicant(s)			
	09/889,410	KITAHARA, J			
Office Action Summary	Examiner	Art Unit			
	Kevin Schubert	2137			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a reply be tin. a reply within the statutory minimum of thirty (30) da eriod will apply and will expire SIX (6) MONTHS from statute, cause the application to become ABANDONI	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 1	17 July 2001.				
· · · · · · · · · · · · · · · · · · ·	This action is non-final.				
3) Since this application is in condition for all	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction a pers 9) The specification is objected to by the Example 10) The drawing(s) filed on 17 July 2001 is/are	ndrawn from consideration. nd/or election requirement. miner.	by the Examiner.			
Applicant may not request that any objection to Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the	prrection is required if the drawing(s) is ol	pjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of: 2. Certified copies of the priority document of: 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the application from the International But * See the attached detailed Office action for a second of the action for	nents have been received. nents have been received in Applica priority documents have been receiv ureau (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar	v (PTO-413)			
 Notice of Neferences Offed (PTO-032) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date <u>09142001</u>; <u>07172001</u>. 	Paper No(s)/Mail D				

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DETAILED ACTION

Claims 1-12 have been examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 4-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Davis, U.S. Patent No. 5,805,712.

As per claim 1, the applicant describes an information processing apparatus with the following limitations which are anticipated by Davis:

- a) a control device for performing predetermined processing of information (Col 8, lines 2-4);
- b) a bus for interconnecting said control device and other component devices of said information processing apparatus (Col 8, lines 5-6);
- c) characterized in that said control device is integrated on a single semiconductor chip in which key information is generated and in which sensitive information is encrypted (Col 8, lines 7-10).

As per claim 2, the applicant describes the information processing apparatus of claim 1, which is anticipated by Davis (see above), with the following additional limitation which is also anticipated by Davis:

Wherein said control device comprises an external bus controller for preventing non-encrypted sensitive information from being output onto said bus (Col 5, lines 54-67; Col 6, lines 1-7);

The applicant should note the lengthy process which the system goes through in order to ensure that the public/private key pair is unique. Since all the information is sensitive in Davis' system, data is only output to the bus when it is protected. In a similar fashion, data is only output to the bus in the applicant's system when it is protected.

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As per claim 4, the applicant describes the information processing apparatus of claim 1, which is anticipated by Davis (see above), with the following additional limitation which is also anticipated by Davis:

Wherein a memory device is provided for storing information encrypted by said control device (Col 8, lines 13-17).

As per claim 5, the applicant describes the information processing apparatus of claim 1, which is anticipated by Davis (see above), with the following additional limitation which is also anticipated by Davis:

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Wherein said control device comprises means for decrypting encrypted information at an information write operation (Col 8, lines 13-17);

The applicant should note that the digital certificate at the write operation (storage) comprises means for decrypting encrypted input information.

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As per claim 6, the applicant describes the information processing apparatus of claim 5, which is anticipated by Davis (see above), with the following additional limitation which is also anticipated by Davis:

- a) wherein said information processing apparatus is connected to a different information processing apparatus through a network (Col 10, 11-15);
- b) wherein said information processing apparatus decrypts encrypted information which is received from said different information processing apparatus (CoI 3, lines 27-30).

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The applicant should note that the hardware device can transmit information to another device through a network using a transceiver.

As per claim 7, the applicant describes the information processing apparatus of claim 1, which is anticipated by Davis (see above), with the following additional limitation which is also anticipated by Davis:

Wherein a plurality of said processing devices are provided, and cryptographic processing is carried out in each of said processing devices (Col 6, lines 9-32).

As per claim 8, the applicant describes the information processing apparatus of claim 1, which is anticipated by Davis (see above), with the following additional limitation which is also anticipated by Davis:

Wherein said processing device comprises means for receiving an encrypted program and for carrying out decryption thereof (Col 6, lines 9-32).

As per claim 9, the applicant describes the information processing apparatus of claim 1, which is anticipated by Davis (see above), with the following additional limitations which are also anticipated by Davis:

- a) a microprocessor for carrying out said predetermined processing (Col 8, lines 3-4);
- b) a cryptographic algorithm memory device for storing an algorithm for information cryptographic processing (Col 8, lines 32-35);
- c) a cryptographic processing device for carrying out cryptographic processing according to said algorithm (Col 8, lines 40-52);
- d) a microprocessor bus for interconnecting said microprocessor, said cryptographic processing algorithm memory device, and said cryptographic processing device (Col 8, lines 5-6).

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Claims 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagel, U.S. Patent No. 5,592,549.

As per claim 10, the applicant describes the following which is anticipated by Nagel:

- a) a disk system controller, including a processing device for carrying out information processing to control a magnetic disk for storing encrypted information (Col 3, lines 33-36)
- b) characterized in that, upon receipt of a request for reading out said encrypted information, key information is generated, encrypted file location information indicating a location of information stored on said magnetic disk is read out of said magnetic disk, said encrypted file location information thus read out is decrypted in a semiconductor chip on which said processing device is integrated, and according to the decrypted file location information, said encrypted information is read out of said magnetic disk (Col 3, lines 37-40);

The applicant should note that the "information retrieval device" (Col 3, line 33) is the disk system controller which retrieves the information. The "control device" (Col 3, line 30) is the information processing apparatus which requests that the information retrieval device take action to retrieve information.

As per claim 11, the applicant describes the disk system controller of claim 10, which is anticipated by Nagel (see above), with the following limitation which is also anticipated by Nagel:

Wherein said disk controller is connected to a plurality of magnetic disks (Col 3, lines 33-36; Col 3, lines 41-44);

The applicant should note that the information retrieval device, or disk system controller, is connected to a secure information source which is in memory and a data logging device which is also in memory. Furthermore, the secure information source could comprise a plurality of magnetic disks, depending on the size of the source.

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As per claim 12, the applicant describes the disk system controller of claim 10, which is anticipated by Nagel (see above), with the following limitations which are also anticipated by Nagel:

- a) wherein said disk system controller is connected to an information processing apparatus (Col 3, lines 30-32);
- b) wherein said disk system controller reads out said encrypted information from said magnetic disk upon receipt of a request therefrom (Col 3, lines 33-36);

The applicant should note that the "information retrieval device" (Col 3, line 33) is the disk system controller which retrieves the information. The "control device" (Col 3, line 30) is the information processing apparatus which requests that the information retrieval device take action to retrieve information.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Davis in further view of Hartman, U.S. Patent No. 5,224,166.

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As per claim 3, the applicant describes the information processing apparatus of claim 2, which is met by Davis (see above), with the following additional limitation which is met by Hartman:

Wherein information not requiring encryption is output onto said bus through said external bus controller (Col 3, lines 50-57; Col 6, lines 1-5);

Davis discloses all the limitations of claim 2. However, Davis' controller method only serves to prevent non-encrypted information from being output onto said bus. Thus, Davis' method fails to disclose

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a way to allow non-encrypted information to be output to the bus. Hartman describes a method which regulates whether information is encrypted or non-encrypted and outputs the data accordingly to the bus to be stored in the internal cache. Because it is sometimes allowable for non-encrypted data to be output to the bus (for example if the data is not sensitive), it would have been obvious to one of ordinary skill in the art at the time the invention was filed to combine the teachings of Hartman with those of Davis.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over the International Preliminary Examination Report (IPER).

Claim 1 is rejected under JP 05-053921 in accordance with the examiner's remarks in the IPER. Moreover, claim 1 is also rejected under JP 64-041947 in accordance with the examiner's remarks in the IPER. Lastly, claim 1 is rejected under JP 10-275115 in accordance with the examiner's remarks in the IPER.

Claim 2 is rejected on the same grounds as claim 1, on which it depends, with an additional limitation which is met by obviousness in accordance with the examiner's remarks in the IPER.

Claim 3 is rejected on the same grounds as claim 2, on which it depends, with an additional limitation which is met my obviousness in accordance with the examiner's remarks in the IPER.

Claim 4 is rejected on the same grounds as claim 1, on which it depends, with an additional limitation which is rejected under JP 05-053921 and JP 64-041947 in accordance with the examiner's remarks in the IPER.

Claim 5 is rejected on the same grounds as claim 1, on which it depends, with an additional limitation which is met by obviousness in accordance with the examiner's remarks in the IPER.

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Claim 6 is rejected on the same grounds as claim 5, on which it depends, with an additional limitation which is met by obviousness in accordance with the examiner's remarks in the IPER.

Claim 7 is rejected on the same grounds as claim 1, on which it depends, with an additional limitation which is met by obviousness in accordance with the examiner's remarks in the IPER.

Claim 8 is rejected on the same grounds as claim 1, on which it depends, with an additional limitation which is met by obviousness in accordance with the examiner's remarks in the IPER.

Claim 9 is rejected under JP 05-053921 and JP 64-041947 in accordance with the examiner's remarks in the IPER.

Claim 10 is rejected under JP 04-163768 in further view of JP 05-053921 and JP 64-041947 and in accordance with the examiner's remarks in the IPER. Claim 10 is also rejected under JP 09-044407 in further view of JP 05-053921, JP 64-041947, and JP 10-275115 in accordance with the examiner's remarks in the IPER.

Claims 11 and 12 are rejected in further view of obviousness in accordance with the examiner's remarks in the IPER.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Schubert whose telephone number is (571) 272-4239. The examiner can normally be reached on M-F 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Andrew Caldwell can be reached on (571) 272-3868. The fax phone number for the organization where
this application or proceeding is assigned is 703-872-9306.

(Indrew (Isluell) Andrew Caldevel

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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